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WHAT IS CLAIMED IS:
Patent claims-

1. A process for coating hollow bodies, in which a powder mixture comprising a metal donor powder, an inert filler powder and an activator powder comprising a metal halide is provided, the powder mixture is brought into contact with an inner surface, which is to be coated, of the hollow body and is heated, characterized in that the inert filler powder is provided with a mean particle size which is approximately the same as the mean particle size of the metal donor powder in that the metal donor powder and the inert filler powder are provided with a mean particle size of greater than 40 μm , and in that a powder mixture with a metal donor powder content of 10 to 25% by weight is provided.
2. The process as claimed in claim 1, characterized in that an alloy with a donor metal content of 20 to 80% by weight is provided as the metal donor powder.
3. The process as claimed in claim 1 or 2, characterized in that a mixture of an alloy with a donor metal content of 40 to 70% by weight and an alloy with a donor metal content of 30 to 50% by weight is provided as the metal donor powder.
4. The process as claimed in one or more of the preceding claims, characterized in that a powder mixture with an activator powder content of 2 to 5% by weight is provided.
5. The process as claimed in one or more of the preceding claims, characterized in that a metal halide of the donor metal is selected for the activator powder.
6. The process as claimed in one or more of the preceding claims, characterized in that AlCr is selected as the donor metal powder.

